



## Rat Taste Receptor 2 (TR2) Antibodies

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Cat. # TR21-P, Rat TR2 Control Peptide # 1, SIZE: 100 ug/100 ul  
FORM: CE Soln CE Lyophilized Lot # 3113P

Cat. # TR21-S, Rabbit Anti-rat TR2 antiserum # 1, SIZE: 100 ul neat antiserum  
FORM: CE Soln CE Lyophilized. Lot # 38889S

Cat. # TR21-A, Rabbit Anti-rat TR2 Ab # 1 (affinity pure) SIZE: 100 ug  
FORM: CE Soln CE Lyophilized. Lot # 38889A

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Higher vertebrates are believed to possess at least five basic tastes: Sweet, bitter, sour, salty, and unami (the taste of monosodium glutamate). Taste receptor cells that may selectively reside in various parts of the tongue and respond to different tastants and perceive these taste modalities. Circumvallate papillae, found at the very back of the tongue, are particularly sensitive to bitter substances. Foliate papillae, found at the posterior lateral edge of the tongue, are sensitive to sour and bitter. Fungiform papillae at the front of the tongue specialize in sweet taste.

Recently, two novel taste receptors, TR1 and TR2, have been cloned with distinct topographical distribution in taste receptor cells and taste buds. TRs are members of a new group of 7 TM domain containing GPCR distantly related to other chemosensory receptors (Ca<sup>2+</sup>-sensing receptor (CaSR, a family of putative hormone receptor (V2R), and metabotropic glutamate receptors). TR1 is expressed in all fungiform taste buds, whereas TR2 localized to the circumvallate taste buds. Both receptors do not co-localize with gustducin.

#### Source of Antigen and Antibodies

TR1 (rat 840 aa) and TR2 (rat 843 aa) share ~40% homology with each other, and ~30% with CaSR, and 22-30% with V2R pheromone receptors and mGLURs. Rat TR are 7 TM domain containing protein with an extra long N-terminal, extracellular domain (1). A 19 AA Peptide (designated TR21-P; control peptide) sequence near the C-terminus of rat TR2(1) was selected for antibody production. The peptide was coupled to KLH, and antibodies generated in rabbits. Antibody has been affinity purified using control peptide-Sepharose.

#### Form & Storage

Control peptide Solution is provided in PBS, pH 7.4 at 1 mg/ml (100 ug/100 ul). Antiserum is supplied as neat serum (100 ul soln or lyophilized). Affinity pure antibodies were purified over the peptide-Sepharose column and supplied as 1 mg/ml soln in PBS, pH 7.4 and 0.1% BSA as stabilizer (100 ul in solution or Lyophilized).

The peptides and antibodies also contain 0.1% sodium azide as preservative. Lyophilized products should be reconstituted in 100 ul water and gently mixed for 15 min at room temp. All peptide/antibody

received in solution or

reconstituted from lyophilized vials should be stored frozen at -20°C or below in suitable aliquots. It is not recommended to store diluted solutions. Avoid repeated freeze and thaw.

#### Recommended Usage

Western Blotting (1:1K-5K for neat serum and 1-10 ug/ml for affinity pure antibody using ECL technique).

ELISA: Control peptide can be used to coat ELISA plates at 1 ug/ml and detected with antibodies (1:10-50K for neat serum and 0.5-1 ug/ml for affinity pure).

Histochemistry & Immunofluorescence: We recommend the use of affinity purified antibody at 1-20 ug/ml in paraformaldehyde fixed sections of tissues (1).

#### Specificity & Cross-reactivity

The 19 AA rat TR21-P control peptide is specific for rat TR2. It has no significant sequence homology with TR1 or gustducin or pheromone receptors. Antibody cross-reactivity in various species has not been studied. The TR21-P control peptide is available to confirm specificity of antibodies.

#### References:

1. Hoon MA et al (1999) Cell 96, 541-555; Lindemann B (1999) Nature Med. 5, 381-382

"Neat Antisera" are the unpurified antiserum and it is suitable for ELISA and Western.  
"Affinity pure" antibodies have been over the antigen-affinity column and recommended for immunohistochemical applications.

"Control peptides" can not be used for Western as they are very short peptides. They are intended for ELISA or antibody competition studies.

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<input type="checkbox"/>	<a href="#">IOH22483</a>	Human	clone MGC:33224 IMAGE:5267661, mRNA, complete cds.	RDC1
<input type="checkbox"/>	<a href="#">IOH14039</a>	Human	Similar to putative nuclear protein ORF1-FL49	ORF1-FL49
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<input type="checkbox"/>	<a href="#">IOH1987</a>	Human	tachykinin receptor 1 isoform short; NK-1 receptor; Tachykinin receptor 1 (substance P receptor; neurokinin-1 receptor); tachykinin 1 receptor (substance P receptor, neurokinin 1 receptor); neurokinin 1 receptor	TACR1
<input type="checkbox"/>	<a href="#">IOH13056</a>	Human	similar to POSSIBLE GUSTATORY RECEPTOR CLONE PTE01	LOC11513
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<input type="checkbox"/>	<a href="#">IOH11033</a>	Human	endothelial differentiation, lysophosphatidic acid G-protein-coupled receptor, 4; G protein-coupled receptor; LPA receptor EDG4; Lysophosphatidic acid receptor EDG4	EDG4
<input type="checkbox"/>	<a href="#">IOH10866</a>	Human	CD97 antigen isoform 2 precursor; leukocyte antigen CD97; seven-span transmembrane protein	CD97
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<input type="checkbox"/>	<a href="#">IOH11359</a>	Human	chemokine (C-X3-C motif) receptor 1; G protein-coupled receptor 13; chemokine (C-C) receptor-like 1; chemokine (C-X3-C) receptor 1	CX3CR1
<input type="checkbox"/>	<a href="#">IOH13127</a>	Human	EBV-induced G protein-coupled receptor 2; Epstein-Barr virus induced gene 2	EBI2
<input type="checkbox"/>	<a href="#">IOH3875</a>	Human	retinoic acid induced 3; retinoic acid responsive gene	RAI3
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<input type="checkbox"/>	<a href="#">IOH14201</a>	Human	endothelial differentiation, sphingolipid G-protein-coupled receptor, 1; edg-1; G protein-coupled sphingolipid receptor; sphingosine 1-phosphate receptor EDG1	EDG1
<input type="checkbox"/>	<a href="#">IOH10409</a>	Human	neuromedin U receptor 2	NMU2R
<input type="checkbox"/>	<a href="#">IOH10344</a>	Human	Unknown (protein for MGC:21621)	MGC21621
<input type="checkbox"/>	<a href="#">IOH13929</a>	Human	dopamine receptor D2 Isoform long	DRD2
<input type="checkbox"/>	<a href="#">IOH13516</a>	Human	Similar to G protein-coupled receptor 30	GPR30
<input type="checkbox"/>	<a href="#">IOH22614</a>	Human	G protein-coupled receptor TYMSTR; G protein-coupled receptor	CXCR6

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## New Item

### Novel Orphan retinal G-protein coupled Receptor (GPCR-75) selective antibodies

#### Anti-GPCR-75 Antibodies (GPCR75-100P, GPCR75-101AP and GPCR75-112AP)

**R**ecently a novel human G-protein coupled receptor gene has been characterized and mapped to chromosome 2p16. This gene codes for a 540 amino acid protein in retinal pigment epithelium (RPE) and cells surrounding retinal arterioles. In contrast, the Northern blot data obtained from mouse sections suggest the expression of transcripts in photoreceptor inner segments and I outer plexiform layer. The transcripts of the GPCR-75 gene (7kb) are also found in abundance in brain sections. So far, no mutations in GPCR-75 protein were identified in patients suffering from Doyme's honeycomb retinal dystrophy (DHRD), an inherited retinal degeneration disease that maps to chromosome 2p16 (1).

The GPCR-75 protein is approximately 78 kDa (540 amino acids) protein that is primarily expressed in human retinal pigment epithelium (RPEs). The GPCR-75 sequence analyses suggest the presence of 7 trans-membrane domains, a characteristic feature of GPCR. The protein has putative N-glycosylation sites near the extra cellular N-terminal end of the proteins. The protein has a large 3 intra cellular loop which might be the site for interaction of G-proteins. The short carboxy terminal is intracellular and has putative post-translational modification lipid modification sites.

The Anti-GPCR-75-selective antibodies were generated against conserved sequences near N- and C-termini of the protein that are unique to GPCR-75 protein. The polyclonal antibody strongly labels a 78 kDa protein in RPE cell extracts. Anti-GPCR-75-selective antibody is also available in affinity-purified form for confocal, Western blotting and immunocytochemical analyses. *FabGennix Int. Inc.* will also conjugate antibodies with fluorescent probes upon request at extra charge. *FabGennix Int. Inc.* will also provides antibodies against proteins that are involved in retinal degenerative diseases such as various Anti-PDE antibodies, Anti-MERTK, Anti-Phospho-MERTK, EGF-containing fibulin like intracellular protein (EFEMP1), Anti-Myocilin (TIGR), Anti-Bestrophin, Anti-ELVOL4 and a Usher syndrome specific Anti-USH2a antibodies etc. *FabGennix Int. Inc.* employs cyclic peptide methodology for generating antibodies, which results in higher titer and specificity (2). *FabGennix Int. Inc.*, will also provide Western blot positive controls for most of these antibodies in ready-to-use buffer for easy identification of respective proteins. Limited quantities of antigens are also available. Please enquire for their availability before ordering.

Catalog #	Host Species	Nature	Cross reactivity	Quantity	volume	Price
GPCR75-100P	Rabbit	Polyclonal antisera	R, M, H	100 ml	100 ul	\$ 195.00
GPCR75-101AP	Rabbit	Affinity purified IgG	R, M, H	100 ug	150 ul	\$ 225.00
GPCR75-112AP	Rabbit	Affinity purified IgG	R, M, H	100 ug	150 ul	\$ 225.00
PC-GPCR75	N/A	WB positive control	Rat	For 5 App	60 ul	\$ 75.00
P-GPCR75	N/A	Antigenic peptides	n/a	250 ug	inquire	\$ 65.00

R = rat; M = mouse; H = human; C = chicken; monk = monkey ; \* not all variants are labeled equally

**Immunogen:** Synthetic cyclic peptide (GPCR75-101AP = PNATSLHVPHSQEGNSTS-amide; GPCR75-112AP = STSLQEGQLDLIHTATLVTC-amide).

**Concentration:** GPCR75-101AP; GPCR-112AP IgG concentration 0.75-1.25 mg/ml in 50% antibody stabilization buffer.

**Applications:** Antibody GPCR75-100/GPCR75-101AP are ideal for WB, IMM and IHC assays. The dilutions for this antibody is for reference only, investigators are expected to determine the optimal conditions for specific assay in his/her laboratory. Dilutions: WB > 1:500; Immunoprecipitation & i.p pull-down assays: > 1:250

**Reactivity:** This antibody detects a single 78 kDa Orphan GPCR75 protein in human RPE cell extracts.

**Protocols:** Standard protocol for various applications (WB; IMM and IHC) of this antibody is provided with the product specification sheet, however, *FabGennix Int. Inc.* strongly recommends investigators to optimize conditions for use of this antibody in their laboratories.

**Form/Storage:** The antiserum is supplied in antibody stabilization buffer with 0.02% sodium azide or thimerosal/merthiolate as preservative. The affinity-purified antibodies are purified on antigen-sepharose affinity column and supplied as 1-1.25 mg/ml IgG in antibody stabilization buffer containing preservatives with low viscosity and cryogenic properties. For long-term storage of antibodies, store at -20°C. Now these antibodies can be stored at -20°C and used immediately without thawing. *FabGennix Inc.* does not recommend storage of very dilute antibody solutions unless they are prepared in specially formulated multi use antibody dilution buffer (Cat # DiluOBuffer). Working solutions of antibodies in DiluOBuffer should be filtered through 0.45µ filter after every use for long-term storage.

78 kDa GP-75 →



#### References:

1. Tarttelin E. E., Krischner L. S., Bellingham J., Baffi. J. Taymanas S. E., Gregor E. K., Csaky K., Stratakis C. A., Gregory-Evans C. Y. *Biochem. Biophys. Res. Commun.* 260, 174-180, 1999.
2. Farooqui, S. M., Brock. W. J., A. Hamdi., Prasad. C. (1991) *J. Neurochem.* 57, 1363-1369.

78 kDa Orphan Receptor-75  
in human RPE cells.  
Antibody GPCR-100P  
(1:400)

\* For users who may require large amounts of GPCR75-100P or GPCR75-101AP, please enquire about bulk material discounts.  
This Product is for Research Use Only and is NOT intended for use in humans or clinical diagnosis.

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